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A cross sectional study on Knowledge, Awareness and Practices regarding Breast Cancer among the women of reproductive age group (25-45 years) attending a peripheral health centre in North India

Authors

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Abstract

Background: Breast cancer (BC) continues to be a major cause of morbidity and mortality throughout the world. Early detection and treatment of BC increases the chances of survival. According to Breast Health Global Initiative guidelines for low and middle income countries, diagnosing BC early by promoting breast self- awareness, clinical breast examination (CBE) and resource adapted mammographic screening will reduce BC mortality.

Methodology: A hospital based cross sectional study was conducted in semi-urban area of District Srinagar. Women of reproductive age group (25-45 years) were interviewed after taking their consent. A total of 189 women were interviewed using a pre-structured questionnaire.

Results: In our study, majority of women were in the age group of 31-35 years (32.8%), illiterate (37.5%), belonging to joint families (70.1%) and married (75.1%). 53.4% women had heard about BC, 58.4% women had heard about BSE and 8.5% women had ever practiced BSE.

Conclusion: Overall the knowledge, awareness and practices were poor among the women interviewed. There is a need for imparting awareness regarding the preventability and early detection of breast cancer through breast self-examination and thus indirectly decreasing the morbidity and mortality. **Keywords**: Breast cancer, Breast self-examination, Knowledge, Awareness, Practice.

Introduction

The breast development occurs in distinct stages throughout a woman's life starting from birth to puberty, during menstruation period, child bearing age and till the woman reaches menopause. As soon as ovulation and menstruation begins, the breast starts maturing and continues to grow. Women may also experience changes in breast texture as age advances⁽¹⁾. Breast cancer is an uncontrolled growth of cells which occurs as a result of mutations or abnormal changes in the genes responsible for the growth of cells and keeping them healthy. Usually breast cancer either begins in the cells of the lobules which are the milk producing glands or the ducts and the passages that drain milk from the lobules to the nipple⁽²⁾.

Breast cancer is a major life-threatening public health concern. Long term increase in the incidence of the disease is being observed in both industrialized and developing world. Breast cancer is the second most occurring cancer (cervical cancer is first) among women⁽³⁾. Almost 70% of women aged over 50 years suffer from breast cancer and only 5% are younger than 40 years⁽⁴⁾. In India, cancer prevalence is estimated around 2.5 million, with over 0.8 million new cases and 0.5 million deaths occurring each year. Breast cancer accounts for 19%–34% of all cancer cases among women in India⁽⁵⁾.

Risk factors for breast cancer are multiple and synergistic. Family history and genetic factors are important risk factors. Reproductive factors such as early menarche, late menopause, and a late age at first childbirth are also associated with increased incidence of breast cancer. Women using oral contraceptive pills or hormone replacement therapy are at a greater risk than others. Lack of breast feeding is also associated with it. Lifestyle factors such as diet, physical activity, overweightness, and obesity also affect the occurrence of breast cancer⁽⁶⁾.

Breast cancer is still considered a social stigma in India. There are numerous myths and ignorance in the Indian society which results in unrealistic fear of the disease⁽⁷⁾. Evidence shows that women who seek treatment at an early stage have better chances of survival. For detection at an early stage, women should be aware of the disease, its symptoms and of simple prevention strategies such as breast self-examination. Therefore, it is crucial to understand women's attitude towards breast cancer in order to develop effective strategies for early detection and prevention of breast cancer⁽⁸⁾.

Aim and Objectives

The study was done to assess the knowledge, attitude and practice regarding the breast selfexamination and breast cancer in women of reproductive age.

Methodology

A cross-sectional hospital based study was conducted from July 2018 to September 2018 to assess Knowledge Awareness and Practices regarding Breast Cancer and Breast Self Examination among women of reproductive age group (25-45 years) attending two peripheral health centres of Block Hazratbal, District Srinagar. Block Hazratbal under is the administrative control of Department of Community Medicine, Government Medical College Srinagar and has been divided into four health zones for administrative convenience. The women in the reproductive age group (25-45 years) attending the gynaecology and obstetrics OPD at the health centre were included in the study. The study was conducted during a time period of 3 months during which a total of 189 women in the reproductive age group (25-45 years), who consented to participate, were included in the study. Informed verbal consent was obtained from eligible women. Participants were explained the objectives of the study and were interviewed using a structured questionnaire. Information was obtained regarding demographic and socio-economic characteristics and reproductive history was also recorded. The knowledge regarding the causes and symptoms of the breast cancer was assessed. The knowledge regarding breast self-examination was also assessed. The collected data was entered in Microsoft Excel Data and was described in terms of percentages.

Results

The majority of the women who participated belonged to the age group of 31 - 35 years (32.8%), were illiterate (37.5%), belonged to a joint family (70.4%), were homemakers (70.9%), and were married (75.1%). [Table 1]

Table 1:	Socio -	demographic	characteristics	of
participan	its			

tierpants					
Characteristic	Number	Percentage			
	(n=189)	(%)			
Age (years)					
25 - 30	35	18.5			
31 – 35	62	32.8			
36 - 40	50	26.5			
41 – 45	42	22.2			
Education level					
Illiterate	71	37.5			
Primary	43	22.7			
Middle	29	15.5			
High school	20	10.5			
Higher secondary	12	6.5			
Graduate	9	4.8			
Post graduate and	5	2.5			
above					
Family type					
Nuclear	56	29.6			
Joint	133	70.4			
Marriage status					
Unmarried	47	24.9			
Married	142	75.1			
Working					
Yes	55	29.1			
No	134	70.9			

101 women (53.4%) had actually heard about the Breast Cancer out of total participants. The women who had heard about breast cancer were further questioned regarding their source of information, awareness about symptoms and awareness about the risk factors. [Table 2]

Table 2: Knowledge and awareness regardingbreast cancer among the participants

	Number (n=101)	Percentage (%)
Heard about Breast c	ancer	· · ·
Yes	101	53.4
No	88	46.6
Source of information	1	
TV / Radio	22	21.7
Family	39	38.7
Friends	34	33.7
Others	6	5.9
Knowledge about syn	nptoms	
Lump in the breast	33	32.7
Pain in the breast	24	23.8
Discharge from	11	10.9
nipples		
Axillary lump	21	20.8
Don't know	12	11.8
Knowledge about risk	x factors	
OCP intake	14	13.9
Family history	33	32.6
Curse	24	23.8
Diet history	11	10.9
Late pregnancy	7	6.9
Don't know	12	11.9

The knowledge regarding the prevention and treatment of breast cancer was also assessed among the participants who had heard about Breast Cancer. [Table 3]

Table 3: Knowledge and awareness regardingprevention and treatment of breast cancer

	Number (n=101)	Percentage (%)			
Knowledge about prevention					
Check up by	31	30.7			
Doctor					
Breast - self	29	28.7			
examination					
Cannot be	24	23.8			
prevented					
Don't know	17	16.8			
Knowledge about treatment					
Curable	34	33.7			
In curable	45	44.5			
Don't know	22	21.8			

The knowledge and practice regarding the Breast Self Examination (BSE) was assessed among the participants. Out of 101 subjects who were aware about Breast Cancer, 59 had heard about Breast Self Examination. [Table 4]

Table 4: Knowledge and practice regarding thebreast self-examination (BSE)

	Number	Percentage (%)		
Heard about BSE (n=101)				
Yes	59	58.4		
No	42	41.6		
Practice of BSE ever (n=59)				
Yes	5	8.5		
No	54	91.5		
Cause of non-practice of BSE (n=54)				
Fear	12	22.2		
Embarrassment	21	38.9		
Lack of knowledge	13	24.1		
Forgetfulness or too busy	8	14.8		

Discussion

Breast cancer, if diagnosed in early stages, is one of the preventable cancers. Treatment and survival is directly related to the stage at diagnosis. The earlier the breast cancer is diagnosed the better the survival rates. There is thus considerable potential for reducing mortality from breast cancer in populations by detecting breast cancer early⁽⁷⁾. In India, women seek medical care at the advance stages when the mortality rate is high. Several reasons for late reporting have been found, of

which lack of awareness, poor health seeking behaviour and shyness on part of patients are major ones⁽⁹⁾. There are no known proven means to prevent breast cancer, which increases our reliance on the methods for early detection in order to improve patient outcomes⁽⁴⁾.

Undoubtedly, screening can be efficient in reducing the mortality in two malignancies viz breast and cervical carcinoma. In developing countries such as India, appropriate knowledge and attitude of the community may be the most important necessity for early detection and screening program of breast cancer⁽¹⁰⁾. A review of the literature reveals low breast cancer literacy with regard to risk factors among Indian women, irrespective their socio-economic and of educational backgrounds, with little correlation between awareness levels and strength of evidence of the risk factors $^{(5)}$.

In our study, majority of the women belonged to the age group of 31-35 years (32.8%) followed by the age group of 36-40 years(26.5%), followed by 41-45 years (22.2%) and the least percentage being that of 25-30 years (18.5%). Majority of the women were illiterate (37.5%) followed by women being educated up-to primary level (22.7%) followed by middle level (15.5%), followed by high school level (10.5%) and higher secondary level (6.8%)and least being educated up-to graduate and postgraduate level. The majority of the women belonged to joint families (70.4%), were married (75.1%), and were homemakers (70.9%).

In our study, out of total 189, 101 (53.4%) women had heard about breast cancer. The source of information in the majority cases was from family (mother/sister) (38.7%), followed by friends (33.7%) and around 21.7% had TV or Radio as their source of information.

Regarding knowledge of symptoms, majority responded with lump in the breast as a symptom (32.7%), followed by pain in the breast (23.8%), followed by axillary lump (20.8%), and followed by discharge (10.9%) while 11.8% didn't have any knowledge regarding the symptoms.

Regarding the knowledge of risk factors, majority had the knowledge of family history as a risk factor (32.6%) ,followed by curse (23.8%), followed by OPC intake (13.9%), diet (10.9%), and late pregnancy (6.9%) while11.9% didn't have any knowledge regarding the risk factors.

The knowledge regarding preventability was also assessed and majority of the women had the knowledge that check up by doctor (30.7%) can help prevent breast cancer, followed by BSE (28.7%) as a preventive remedy. 23.8% women had a view that breast cancer could not be prevented at all. 16.8% women didn't know if breast cancer was preventable or not.

33.7% women had a knowledge that breast cancer was curable and 44.5% believed that breast cancer was not curable while 21.8% women didn't know if breast cancer was curable or not.

Regarding breast self-examination, (BSE), 58.4% (59) women had heard about it, and only 8.5% (54) had ever practised BSE at home. The majority of the women reported embarrassment (38.8%) as a cause of non- practice of BSE, followed by fear (22.2%), followed by lack of knowledge (24.1%).

Conclusion

This study has shown that though awareness regarding breast cancer was considerable but there waspoor knowledge about risk factors and screening test. Breast self -examination which is most sensitive and cost effective method for early detection of cancer was known by few women and very few of them practiced it regularly. Therefore it is important to educate the women about breast cancer and its risk factors, eliminate the misconception and promote screening for early detection⁽⁹⁾. Many women showed very less attitude towards favourable breast self _ examination which can be corrected or made more favourable by educating them about the correct technique and skills of performing breast self examination right from the age of adolescence in the form of formal education as well as informal $education^{(2)}$.

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Indian women need to be aware of both modifiable and non-modifiable risk factors for breast cancer to adopt appropriate practices for prevention. Breast cancer is a topic that is not freely discussed in India because of the cultural taboo. Hence, there is an urgent call for more effective nation and state- wide cancer literacy well engagements with programs, as as community- level organizations and health systems. The government should utilize good examples of famous personalities who have revived from the disease. Health education at the college level, regarding various aspects ranging from risk factors to various methods of screening, should be done more aggressively. BSE should be encouraged actively especially in women with a family history $^{(5)}$.

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